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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/586,146 | 07/14/2006 | Manabu Sato | 0670-7081 | 4190 |
| 31780 ERIC ROBINS | 7590 12/16/200 ON | EXAMINER | | |
| PMB 955 | | OBAYANJU, OMONIYI | | |
| 21010 SOUTHI POTOMAC FA | LLS, VA 20165 | | ART UNIT | PAPER NUMBER |
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | Application No. | Applicant(s) | | | |
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| | 10/586,146 | SATO, MANABU | | | |
| Office Action Summary | Examiner | Art Unit | | | |
| | OMONIYI A. OBAYANJU | 2617 | | | |
| The MAILING DATE of this communication app Period for Reply | pears on the cover sheet with the c | orrespondence address | | | |
| A SHORTENED STATUTORY PERIOD FOR REPL'WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE | N. nely filed the mailing date of this communication. D (35 U.S.C. § 133). | | | |
| Status | | | | | |
| 1) ☐ Responsive to communication(s) filed on 10 S 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under E | action is non-final. nce except for formal matters, pro | | | | |
| Disposition of Claims | | | | | |
| 4) Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-4 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on 14 July 2006 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct | or election requirement. er. ⊠ accepted or b)∏ objected to b drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj | e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d). | | | |
| 11) The oath or declaration is objected to by the Ex | kaminer. Note the attached Office | Action or form PTO-152. | | | |
| Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | |
| Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 02/17/2009, 11/20/2006, 07/14/2006. | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other: | ate | | | |

DETAILED ACTION

Response to Arguments

Applicant's arguments filed 09/10/2009 have been fully considered but they are not persuasive.

Applicant argued and/or stated that with the current amendment submitted,

Janky and Schmutz, either alone, or in combination do not teach or suggest the features

of the claimed present invention.

In response, the examiner respectfully disagrees with Applicant's argument. After careful review of the amended claims, it is noted that the previously presented claims have been rearranged and/or rephrased to better recite the features of the present invention. However, the amended claims have not substantially changed the claimed limitations to overcome the rejections as previously presented in the Non-final Office Action (06/10/2009).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Janky (US Patent No. 5790527) in view of Schmutz (US Publication No. 20010031624).

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As to claims 1, 2, and 3, Janky teaches a communication method used in a wireless communication system (abs) which includes both a repeater relay station of a wireless communication network using repeater system (fig. 2, #18) and a frequency division multiple access (FDMA) relay station of a wireless communication network using FDMA system (fig. 2, #14 and #12), the method comprising the steps of: receiving a call signal from a repeater wireless terminal (fig. 2, #16a) in the wireless communication network using repeater system, by the repeater relay station (fig. 2, #18); setting the forwarded call signal for a control signal at the FDMA relay station (col. 6, lines 40-50); transmitting the control signal to an FDMA wireless terminal (fig. 2, #16b) in the wireless communication network using FDMA system (fig. 2, #12 to #16b); detecting by the FDMA wireless terminal (dual mode radio) the call signal being from the repeater wireless terminal and a downlink frequency (e.g., f2) (working channel) of the repeater relay station (fig. 2, #18), on the basis of the received control signal (col. 16, lines 64-col. 17, lines 1-4, and col. 6, lines 52-57); switching by the FDMA wireless terminal its own reception frequency from a downlink frequency (e.g., f3) (control channel) of the FDMA relay station to the downlink frequency (e.g., f2) of the repeater relay station (col. 10, lines 40-45, col. 16, lines Application/Control Number: 10/586,146

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47-49, and col. 15, lines 58-62); relay-transmitting by the repeater relay station a voice signal contained in a signal transmitted by the repeater wireless terminal to the downlink frequency (e.g., f2) (working channel) (col. 6, lines 12-33, and col. 16, lines 64-col. 17, lines 1-4); and receiving the voice signal from the repeater wireless terminal by the FDMA wireless terminal (fig. 2, #16b and fig. 13, FDMA Radios) whose reception frequency (control channel) (col. 6, lines 12-33) has been changed (switches) to the downlink frequency (e.g., f2) (working channel) so that the FDMA wireless terminal communicates via the repeater relay station with the repeater wireless terminal (col. 10, lines 40-45, col. 16, lines 47-49, and col. 15, lines 58-62).

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Janky does not teach connecting the repeater relay station to the FDMA relay station by a line to forward the call signal received by the repeater relay station to the FDMA relay station, and wherein the call signal to be transmitted from the repeater wireless terminal to the repeater relay station, the call signal to be transmitted from the repeater relay station to the FDMA relay station and the call signal to be transmitted from the FDMA relay station to the FDMA wireless terminal are carried by using respective distinct signal formats.

But Schmutz teaches connecting the repeater relay station (Translator repeater station, fig. 1, # 12.1) to the FDMA relay station (GSM Base Transceiver station, fig. 1, #15.1) by a line to forward the call signal received by the repeater relay station to the FDMA relay station (communication line, fig. 1, #19). Schmutz further teaches wherein the call signal to be transmitted from the repeater

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wireless terminal (fig. 1, #18.1) to the repeater relay station, the call signal to be transmitted from the repeater relay station to the FDMA relay station and the call signal to be transmitted from the FDMA relay station to the FDMA wireless terminal (fig. 1, #18.2) are carried by using respective distinct signal formats (pg. 2, pp0021-pp0022).

Thus, it would have been obvious to one of ordinary skill in the art at time the invention was made to modify the teachings of Janky with the configuration of Schmutz to efficiently acquire a communication session between terminals in a wireless communication network with two different operating systems.

As **to claim 4**, Janky teaches wherein the signal format for the call signal from the repeater wireless terminal to the repeater relay station comprises a call classifier and. a terminal identifier (col. 5, lines 40-50), the signal format for the call signal from the repeater relay station to the FDMA relay station comprises a synchronous signal pattern, a call classifier, a terminal identifier, a relay station identifier and information added by relay station (col. 6 lines 35-59), and the format for the call signal from the FDMA relay station to the FDMA wireless terminal comprises a synchronous signal pattern, system information and terminal control information (col. 6, lines 40-50 and col. 7, lines 35-50).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to OMONIYI A. OBAYANJU whose telephone number is (571)270-5885. The examiner can normally be reached on Mon - Fri, 7:30 - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vincent P. Harper can be reached on 571-272-7605. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/O. A. O./ Examiner, Art Unit 2617 /VINCENT P. HARPER/ Supervisory Patent Examiner, Art Unit 2617